

AMENDMENTS TO THE CLAIMS

1-14. Cancelled.

15. (New) A fuel container for fuel cell in which a solid or liquid fuel is placed, comprising a fuel gas supply port for supplying vapor of the fuel stored in the container to a liquid fuel supply system of the fuel cell.

16. (New) The fuel container for fuel cell according to claim 15, wherein a gas liquid separating section is provided on the fuel gas supply port.

17. (New) The fuel container for fuel cell according to claim 15, further comprising:

a fuel storage chamber in which a solid or fluid fuel is placed; and
a vaporizing chamber storing vapor of the fuel vaporized in the fuel storage chamber.

18. (New) The fuel container for fuel cell according to claim 17, wherein the fuel storage chamber and the vaporizing chamber are partitioned by a gas liquid separating film.

19. (New) The fuel container for fuel cell according to claim 15, wherein the fuel is a solidified material of an organic liquid fuel.

20. (New) The fuel container for fuel cell according to claim 15, being a fuel cartridge for fuel cell which is detachably provided to the fuel cell.

21. (New) The fuel container for fuel cell according to claim 15, wherein an openable and closable shutter member is provided to the fuel gas supply port.

22. (New) A fuel container for fuel cell, comprising:
a fuel placing section in which a solid or liquid fuel is placed;
a vaporizing section communicated with the fuel placing section in which the fuel is vaporized; and
a fuel gas supply port supplying a vaporized fuel vaporized in the vaporizing section to a liquid fuel supply system of the fuel cell.

23. (New) The fuel container for fuel cell according to claim 22, wherein a gas liquid separating section is provided on the fuel gas supply port.

24. (New) The fuel container for fuel cell according to claim 22, further comprising:
a fuel storage chamber in which a solid or fluid fuel is placed; and
a vaporizing chamber storing vapor of the fuel vaporized in the fuel storage chamber.

25. (New) The fuel container for fuel cell according to claim 24, wherein the fuel storage chamber and the vaporizing chamber are partitioned by a gas liquid separating film.

26. (New) The fuel container for fuel cell according to claim 22, wherein the fuel is a solidified material of an organic liquid fuel.

27. (New) The fuel container for fuel cell according to claim 22, being a fuel cartridge for fuel cell which is detachably provided to the fuel cell.

28. (New) The fuel container for fuel cell according to claim 22, wherein an openable and closable shutter member is provided to the fuel gas supply port.

29. (New) A fuel cell, comprising: a fuel electrode; a liquid fuel supply system supplying a liquid fuel to the fuel electrode; and a vaporized fuel supply section supplying a vaporized fuel to the liquid fuel supply system; wherein a gas liquid separating section selectively transferring the vaporized fuel is provided between the liquid fuel supply system and the vaporized fuel supply section.

30. (New) The fuel cell according to claim 29, further comprising a shutter member by which the supply of the vaporized fuel to the liquid fuel supply system starts and stops.

31. (New) A fuel cell, comprising: a fuel electrode; a liquid fuel supply system supplying a liquid fuel to the fuel electrode; and the fuel container for fuel cell according to claim 15; wherein a gas liquid separating section selectively transferring vapor of the fuel to the liquid fuel supply system is provided between the fuel container for fuel cell and the liquid fuel supply system.

32. (New) The fuel cell according to claim 31, further comprising a shutter member by which the supply of the vaporized fuel to the liquid fuel supply system starts and stops.

33. (New) The fuel cell according to claim 31:
wherein the liquid fuel supply system comprises,
a fuel cartridge in which liquid fuel supplied to the fuel electrode is stored, and
a fuel collecting section collecting a liquid discharged from the fuel electrode or
the oxidant electrode; and

wherein the fuel container for fuel cell is constituted to supply vapor of the fuel
to a liquid fuel mixing tank communicated with the fuel cartridge and with the fuel
collecting section.

34. (New) A fuel cell, comprising: a fuel electrode; a liquid fuel supply system
supplying a liquid fuel to the fuel electrode; and the fuel container for fuel cell
according to claim 22; wherein a gas liquid separating section selectively transferring
vapor of the fuel to the liquid fuel supply system is provided between the fuel
container for fuel cell and the liquid fuel supply system.

35. (New) The fuel cell according to claim 34, further comprising a shutter
member by which the supply of the vaporized fuel to the liquid fuel supply system
starts and stops.

36. (New) The fuel cell according to claim 34:
wherein the liquid fuel supply system comprises,
a fuel cartridge in which liquid fuel supplied to the fuel electrode is stored, and
a fuel collecting section collecting a liquid discharged from the fuel electrode or
the oxidant electrode; and

wherein the fuel container for fuel cell is constituted to supply vapor of the fuel
to a liquid fuel mixing tank communicated with the fuel cartridge and with the fuel

collecting section.

37. (New) An operation method of fuel cell having a fuel electrode, a liquid fuel supply system supplying a liquid fuel to the fuel electrode:

wherein the fuel cell is operated while supplying a vaporized fuel having a higher concentration than the concentration of the liquid fuel supplied to the fuel electrode.

38. (New) The operation method of fuel cell according to claim 37, wherein the fuel cell is operated by circulating the liquid fuel, while collecting a residual fuel having passed through the fuel electrode or a water generated on an oxidant electrode.